

FIG. 1

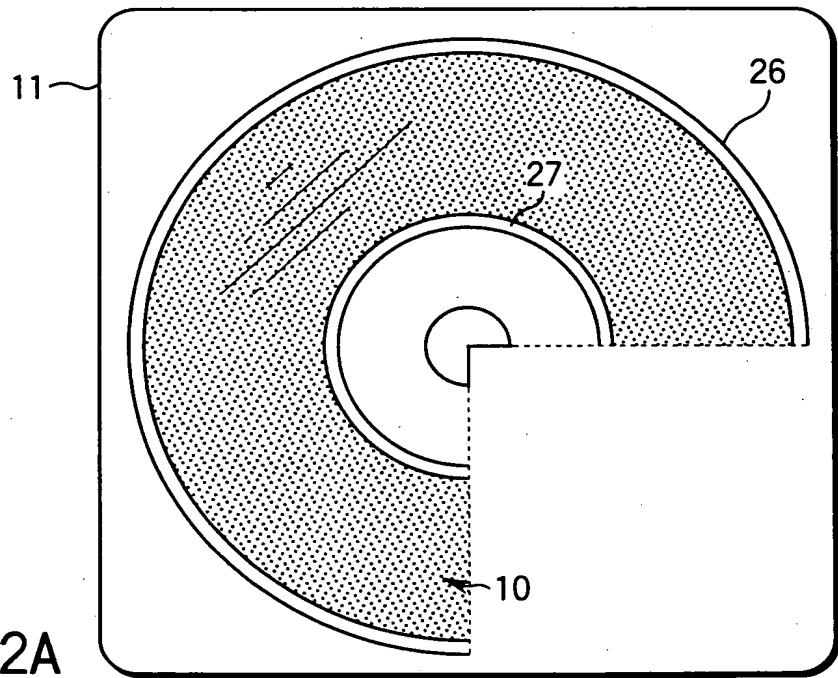


FIG. 2A

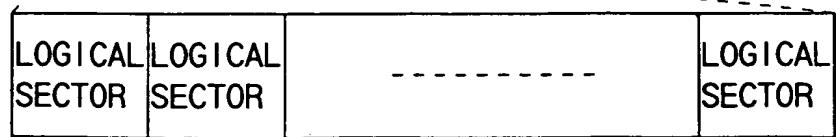


FIG. 2B      ←→ 2048 BYTES (2k BYTES)

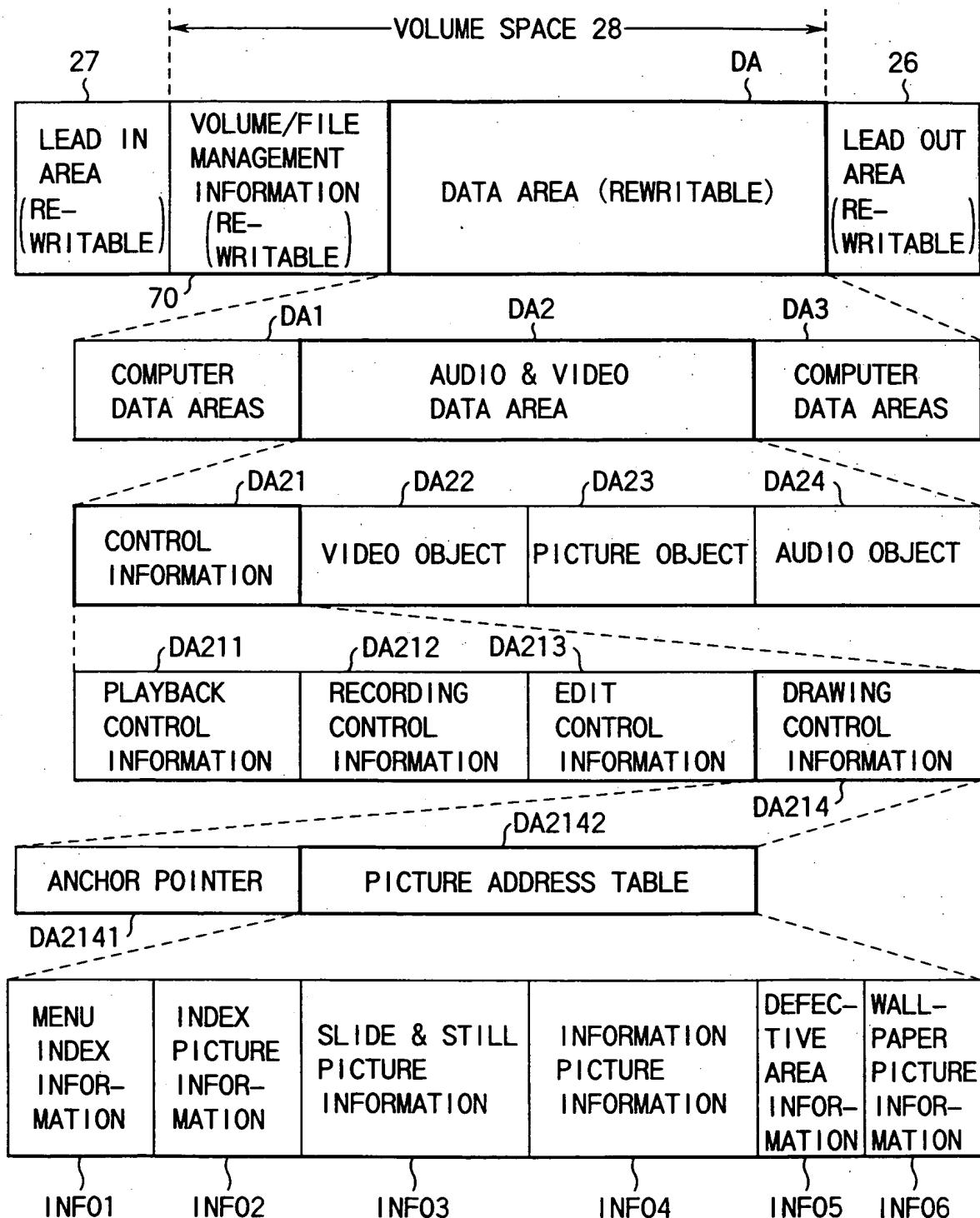


FIG. 3

FIG. 4

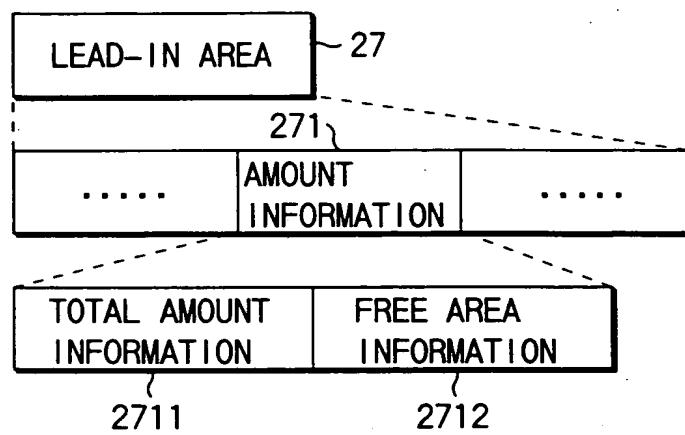


FIG. 5

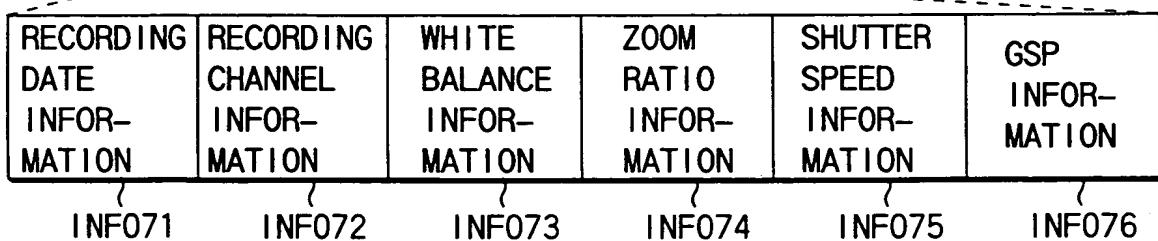
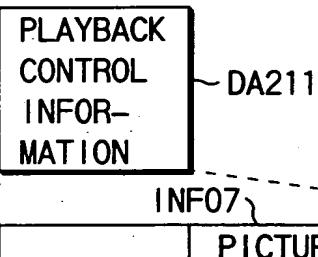
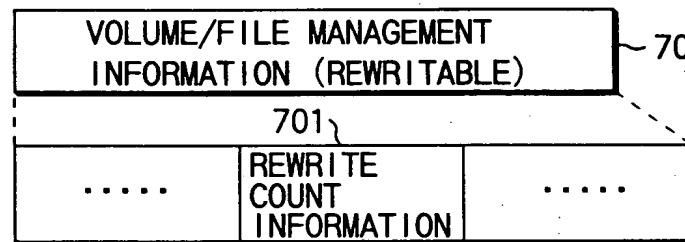


FIG. 6

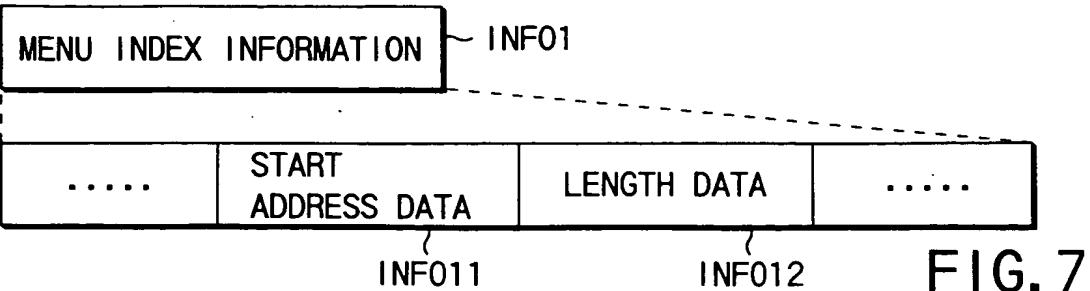


FIG. 7

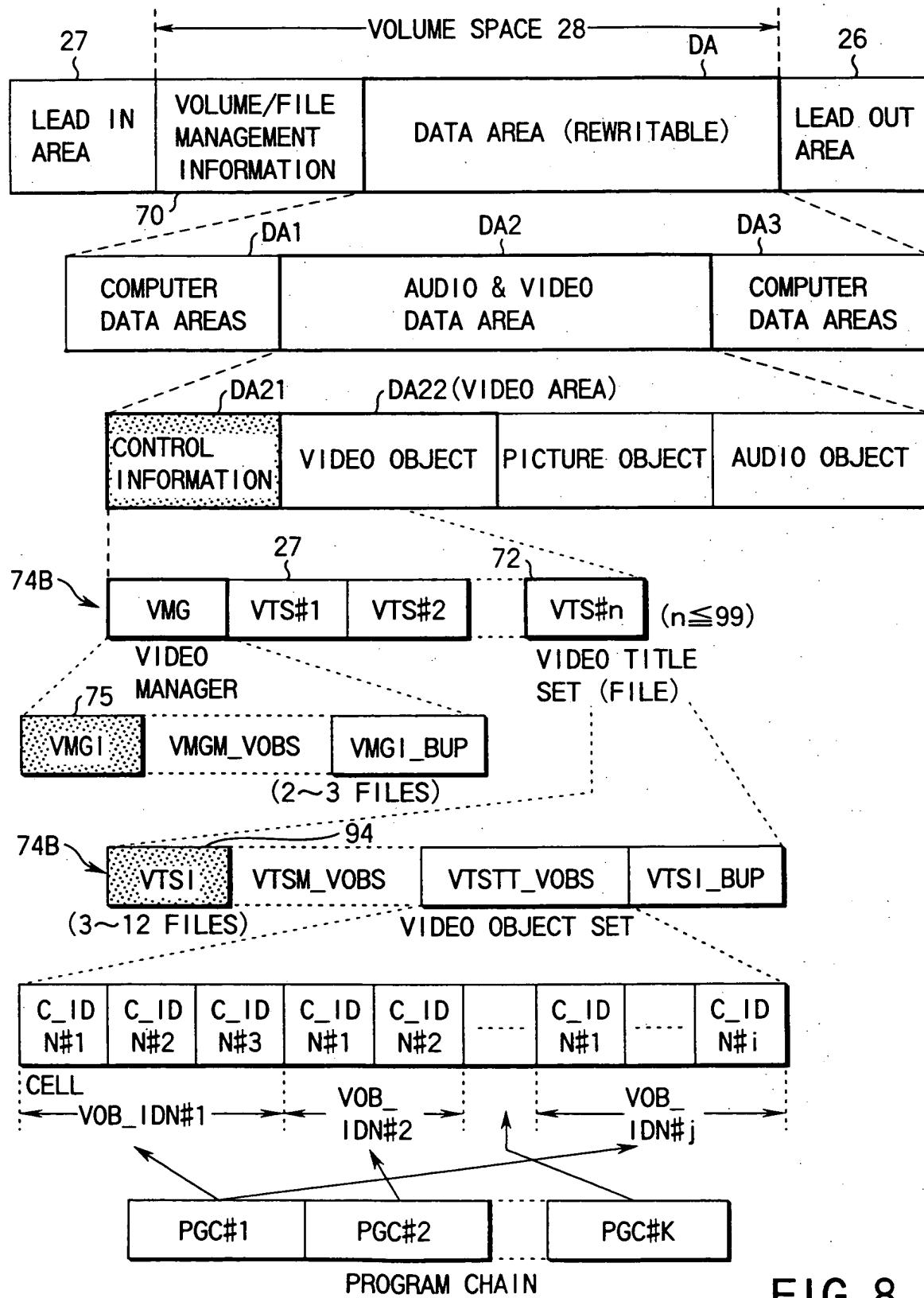


FIG. 8

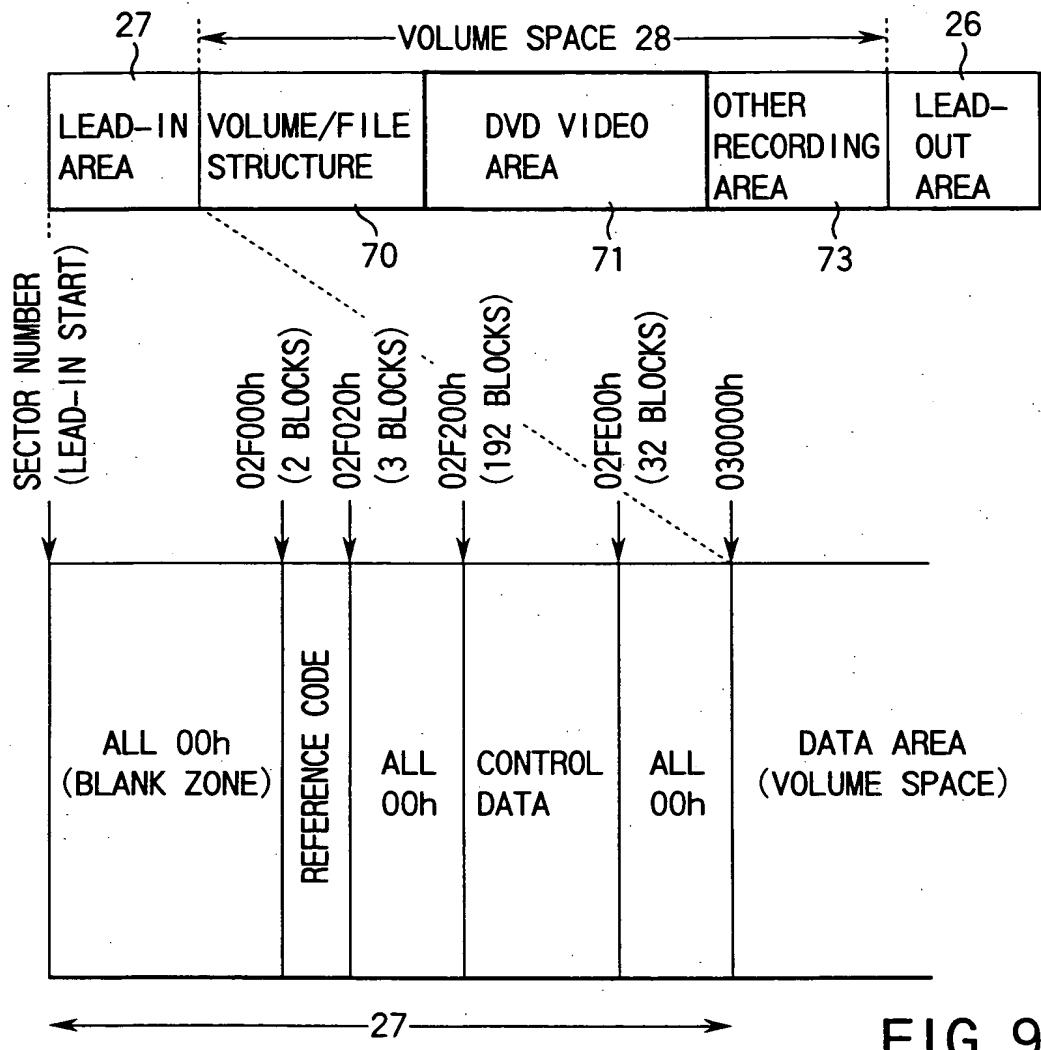


FIG. 9

ARRANGEMENT OF PRESENTATION CONTROL INFORMATION PCI

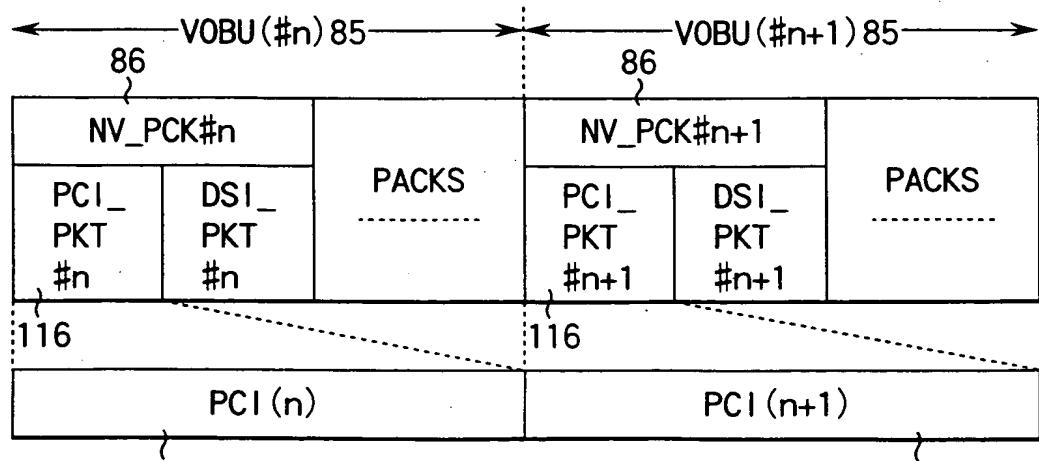


FIG. 13

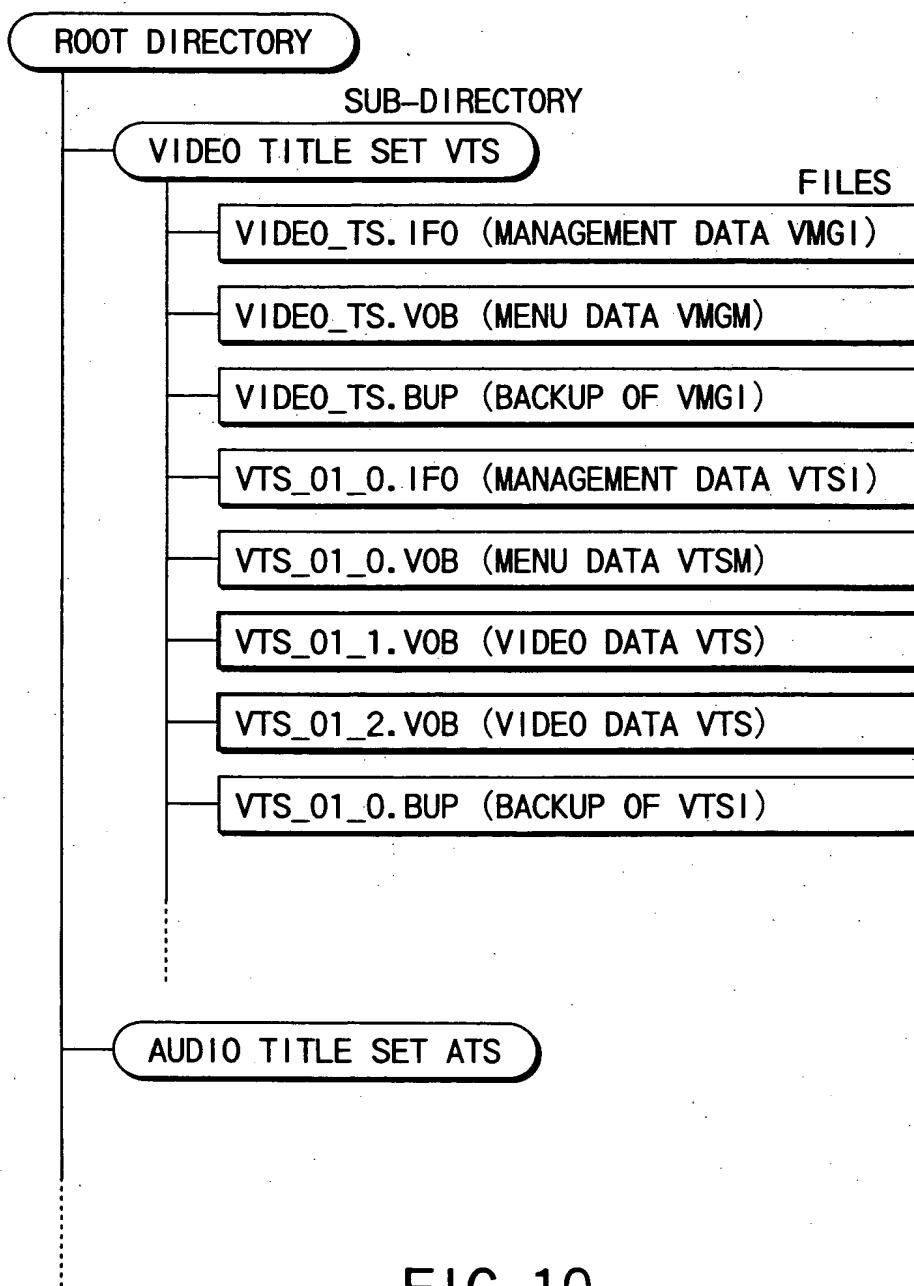


FIG. 10

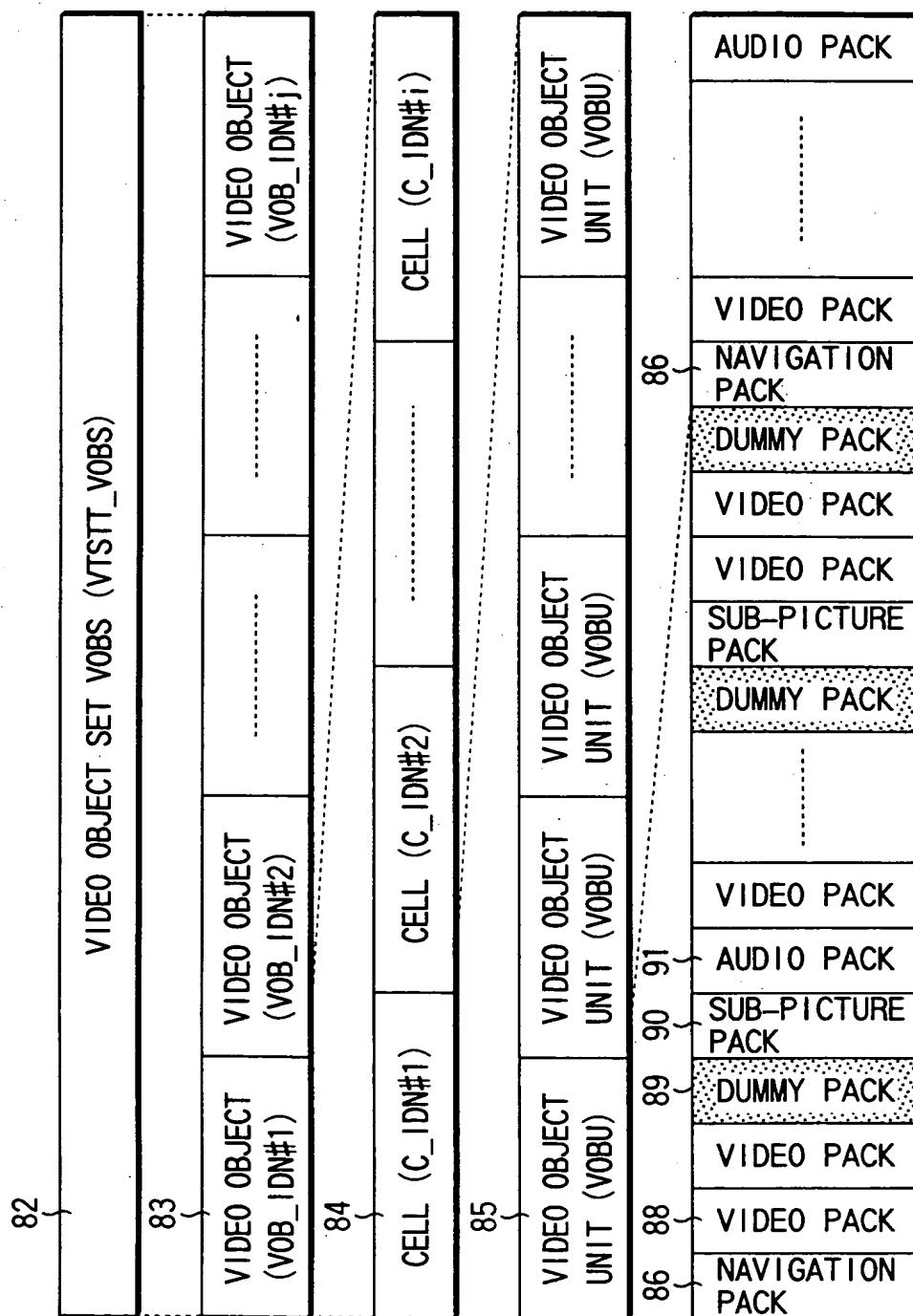


FIG. 1

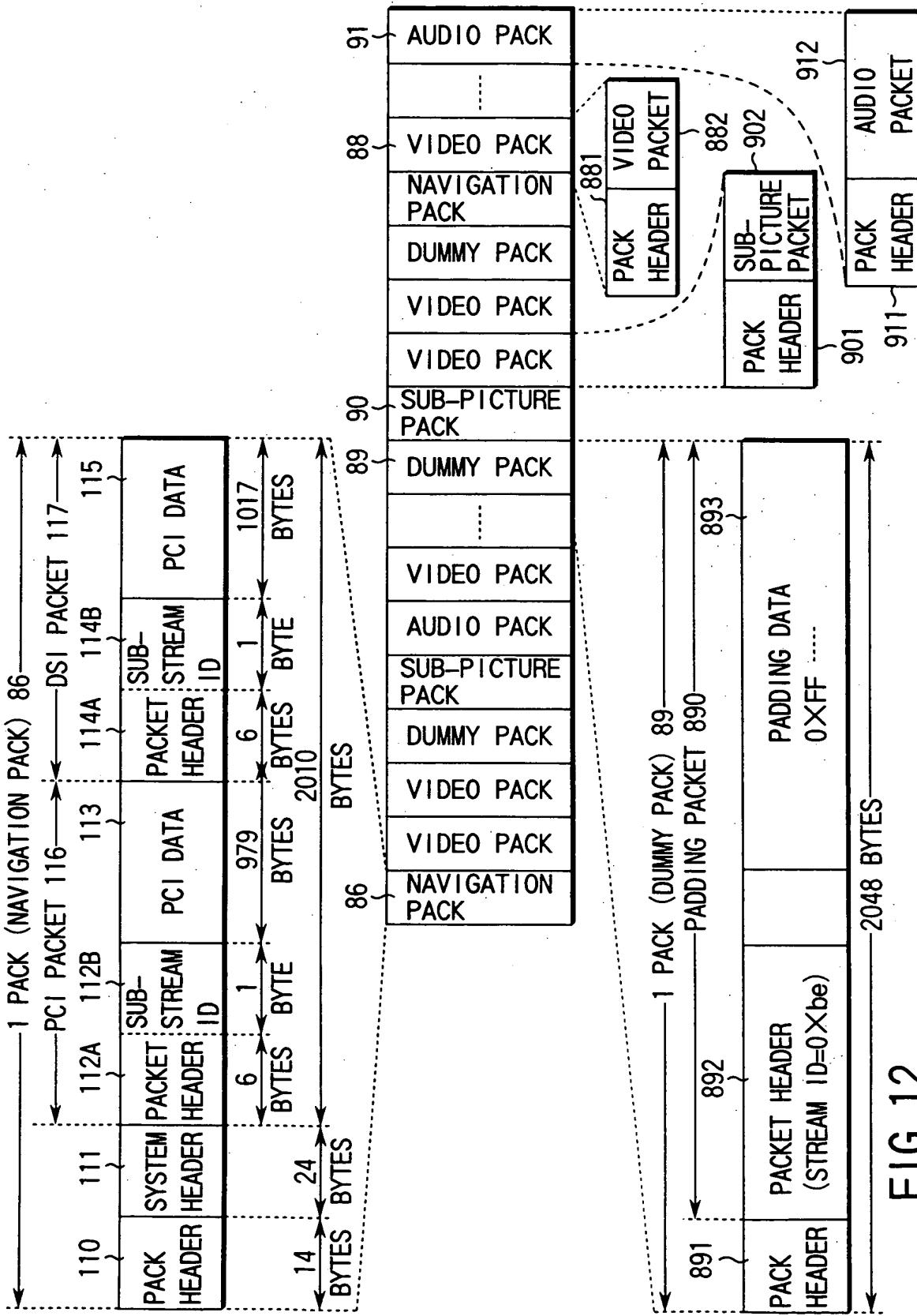


FIG. 12

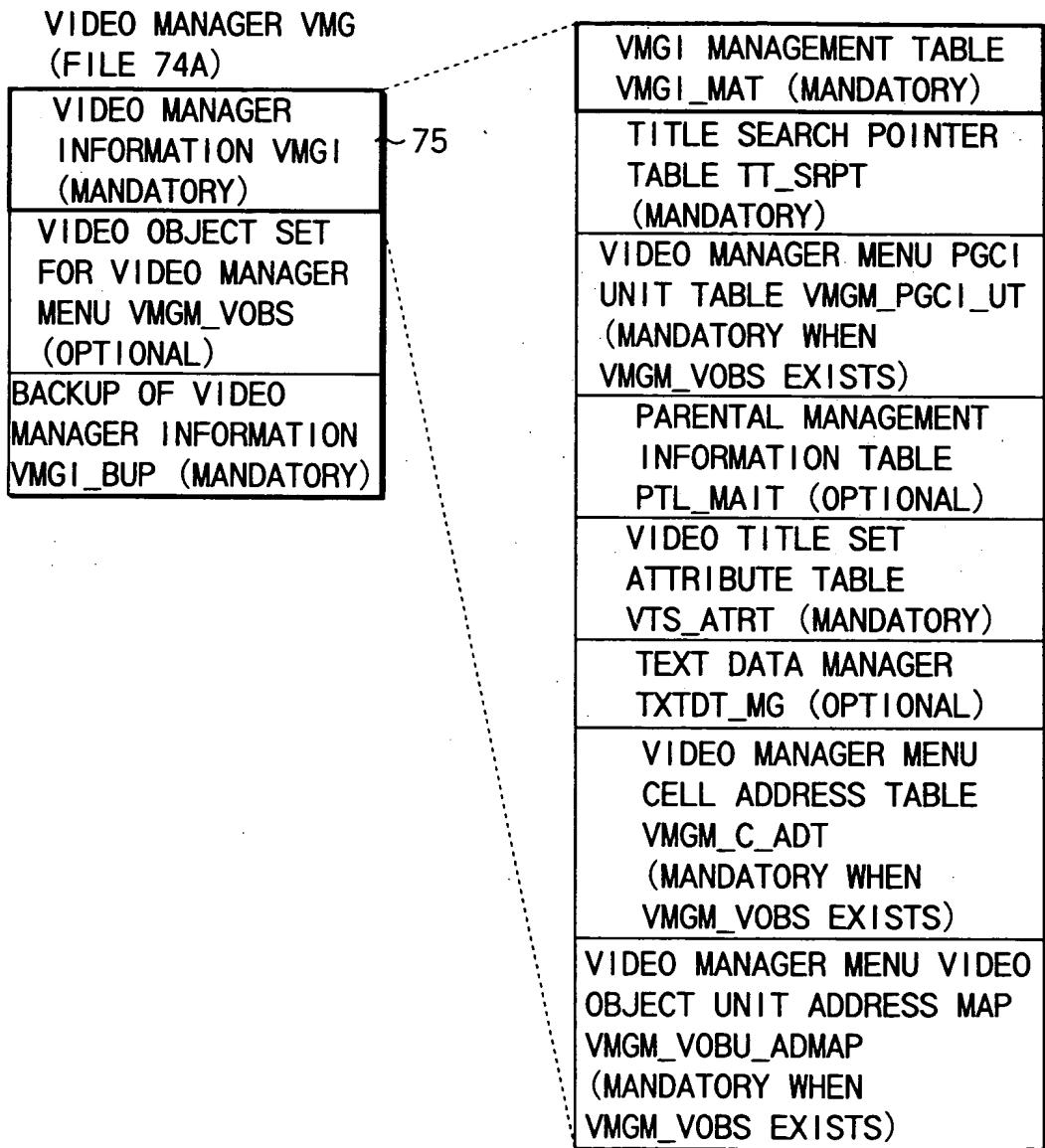


FIG. 14

VIDEO MANAGER INFORMATION MANAGEMENT TABLE VMGI\_MAT

RBP	SYMBOL	CONTENTS	NUMBER OF BYTES
0-11	VMG_ID	VMG IDENTIFIER	12
12-15	VMG_EA	END ADDRESS OF VMG	4
16-27	RESERVED	RESERVED	12
28-31	VMGI_EA	END ADDRESS OF VMGI	4
32-33	VERN	VERSION OF DVD SPEC.	2
34-37	VMG_CAT	VIDEO MANAGER CATEGORY	4
38-45	VLMS_ID	VOLUME SET IDENTIFIER	8
46-49	FREE_SPACE	FREE SPACE/FREE AREA	14
50-61	RESERVED	RESERVED	12
62-63	VTS_Ns	NUMBER OF VTS	2
64-95	PVR_ID	PROVIDER UNIQUE ID	32
96-127	RESERVED	RESERVED	32
128-131	VMGI_MAT_EA	VMGI MAT END ADDRESS	4
132-135	FP_PGC1_SA	FP_PGC1 START ADDRESS	4
136-191	RESERVED	RESERVED	56
192-195	VMGM_VOBS_SA	VMGM VOBS START ADDRESS	4
196-199	TT_SRPT_SA	TT SRPT START ADDRESS	4
200-203	VMGM_PGC1_UT_SA	VMGM_PGC1_UT START ADDRESS	4
204-207	PTL_MAIT_SA	PTL_MAIT START ADDRESS	4
208-211	VTS_ATRT_SA	VTS_ATRT START ADDRESS	4
212-215	TXTDT_MG_SA	TXTDT_MG START ADDRESS	4
216-219	VMGM_C_ADT_SA	VMGM_C_ADT START ADDRESS	4
220-223	VMGM_VOBU_ADMAP_SA	VMGM_VOBU_ADMAP START ADDRESS	4
224-255	RESERVED	RESERVED	32
256-257	VMGM_V_ATR	VIDEO ATTRIBUTE OF VMGM	2
258-259	VMGM_AST_Ns	NUMBER OF AUDIO STREAMS OF VMGM	2
260-267	VMGM_AST-ATR	AUDIO STREAM ATTRIBUTE OF VMGM	8
268-323	RESERVED	RESERVED	56
324-339	RESERVED	RESERVED	16
340-341	VMGM_SPST_Ns	NUMBER OF SUB-PICTURE STREAMS OF VMGM	2
342-347	VMGM_SPST_ATR	SUB-PICTURE STREAM ATTRIBUTE OF VMGM	6
348-1023	RESERVED	RESERVED	676
1024- 2291 (MAX)	FP_PGC1	FIRST PLAY PGC1	0 OR 236- 268

FIG.15

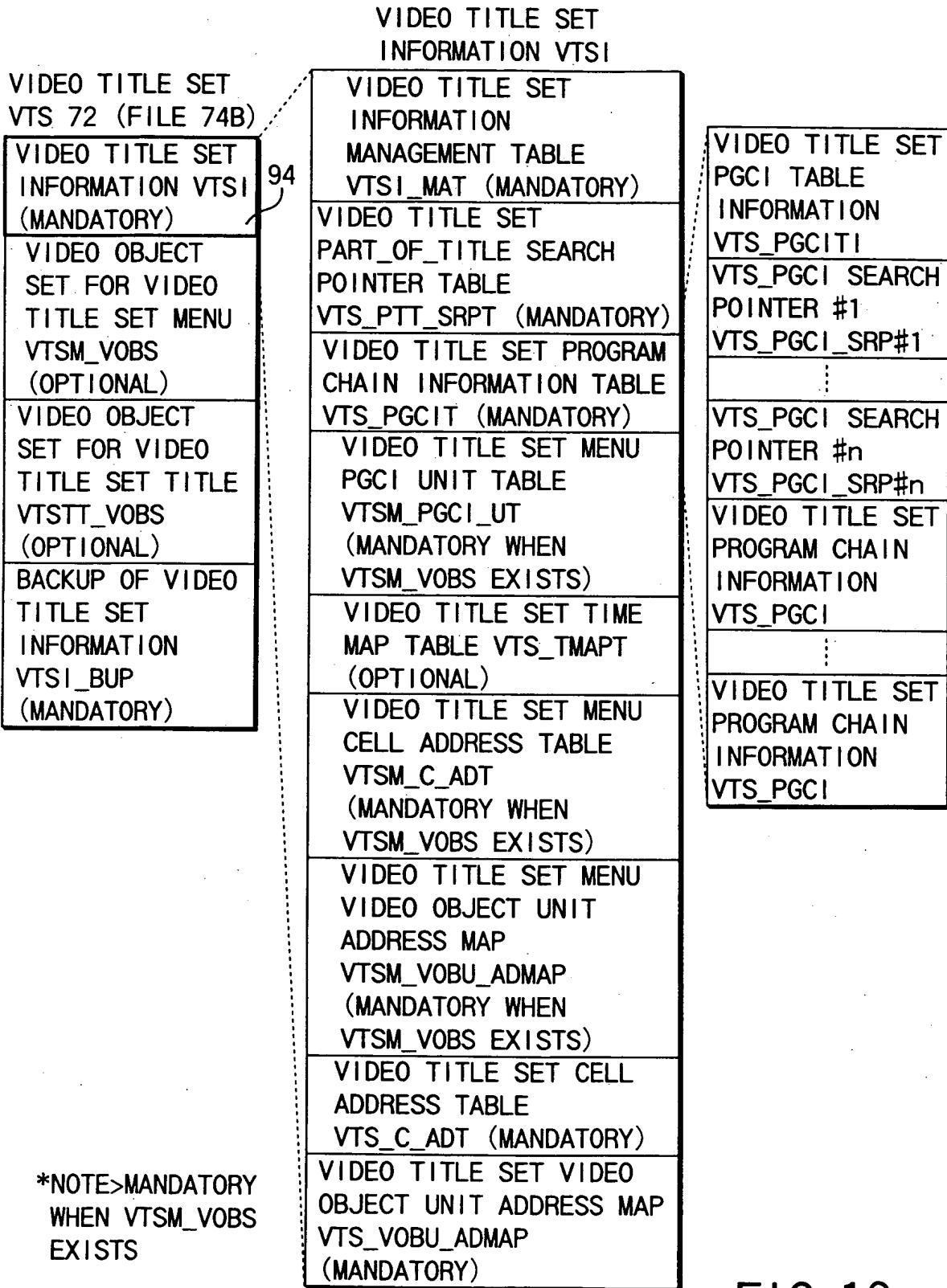


FIG. 16

VIDEO TITLE SET INFORMATION MANAGEMENT TABLE VTSI\_MAT

RBP	SYMBOL	CONTENTS	NUMBER OF BYTES
0-11	VTS_ID	VTS IDENTIFIER	12
12-15	VTS_EA	END ADDRESS OF VTS	4
16	PLAY_END Flag	0=NOT YET PLAYED BACK; 1=COMPLETELY PLAYED BACK	1
17	ARCHIVE Flag	0=FREE (ERASABLE); 1=KEEP (UNERASABLE)	1
18-27	RESERVED	RESERVED	10
28-31	VTSI_EA	END ADDRESS OF VTSI	4
32-33	VERN	VERSION OF DVD SPEC.	2
34-37	VTS_CAT	VTS CATEGORY	4
38-127	RESERVED	RESERVED	90
128-131	VTSI_MAT_EA	END ADDRESS OF VTSI_MAT	4
132-191	RESERVED	RESERVED	60
192-195	VTSM_VOBS_SA	START ADDRESS OF VTSM_VOBS	4
196-199	VTSTT_VOBS_SA	START ADDRESS OF VTSTT_VOBS	4
200-203	VTS_PTT_SRPT_SA	START ADDRESS OF VTS_PTT_SRPT	4
204-207	VTS_PGCIT_SA	START ADDRESS OF VTS_PGCIT	4
208-211	VTSM_PGC1_UT_SA	START ADDRESS OF VTSM_PGC1_UT	4
212-215	VTS_TMAPT_SA	START ADDRESS OF VTS_TMAPT	4
216-219	VTSM_C_ADT_SA	START ADDRESS OF VTSM_C_ADT	4
220-223	VTSM_VOBU_ADMAP_SA	START ADDRESS OF VTSM_VOBU_ADMAP	4
224-227	VTS_C_ADT_SA	START ADDRESS OF VTS_C_ADT	4
228-231	VTS_VOBU_ADMAP_SA	START ADDRESS OF VTS_VOBU_ADMAP	4
232-255	RESERVED	RESERVED	24
256-579	ATTRIBUTES OF VIDEO, AUDIO, SUP-PICTURE, ETC.		324
580-595	RESERVED	RESERVED	16
596-597	VTS_SPST_Ns	NUMBER OF SUB-PICTURE STREAMS OF VTS	2
598-789	VTS_SPST_ATRT	SUB-PICTURE STREAM ATTRIBUTE TABLE OF VTS	192
790-791	RESERVED	RESERVED	2
792-983	VTS_MU_AST_ATRT	MULTICHANNEL AUDIO STREAM ATTRIBUTE TABLE OF VTS	192
984-2047	RESERVED	RESERVED	1064

FIG. 17

PROGRAM CHAIN GENERAL INFORMATION PGC\_GI

RBP	SYMBOL	CONTENTS	NUMBER OF BYTES
0-3	PGC_CNT	PGC CONTENTS	4
4-7	PGC_PB_TM	PGC PLAYBACK TIME	4
8-11	PGC_UOP_CTL	PGC USER OPERATION CONTROL	4
12-27	PGC_AST_CTLT	PGC AUDIO STREAM CONTROL TABLE	16
28-155	PGC_SPST_CTLT	PGC SUB-PICTURE STREAM CONTROL TABLE	128
156-163	PGC_NV_CTL	PGC NAVIGATION CONTROL	8
164-227	PGC_SP_PLT	PGC SUB-PICTURE PALETTE	4X16
228-229	PGC_CMDT_SA	START ADDRESS OF PGC_CMDT	2
230-231	PGC_PGMAP_SA	START ADDRESS OF PGC_PGMAP	2
232-233	C_PBIT_SA	START ADDRESS OF C_PBIT	2
234-235	C_POSIT_SA	START ADDRESS OF C_POSIT	2
			TOTAL 236 BYTES

FIG. 18

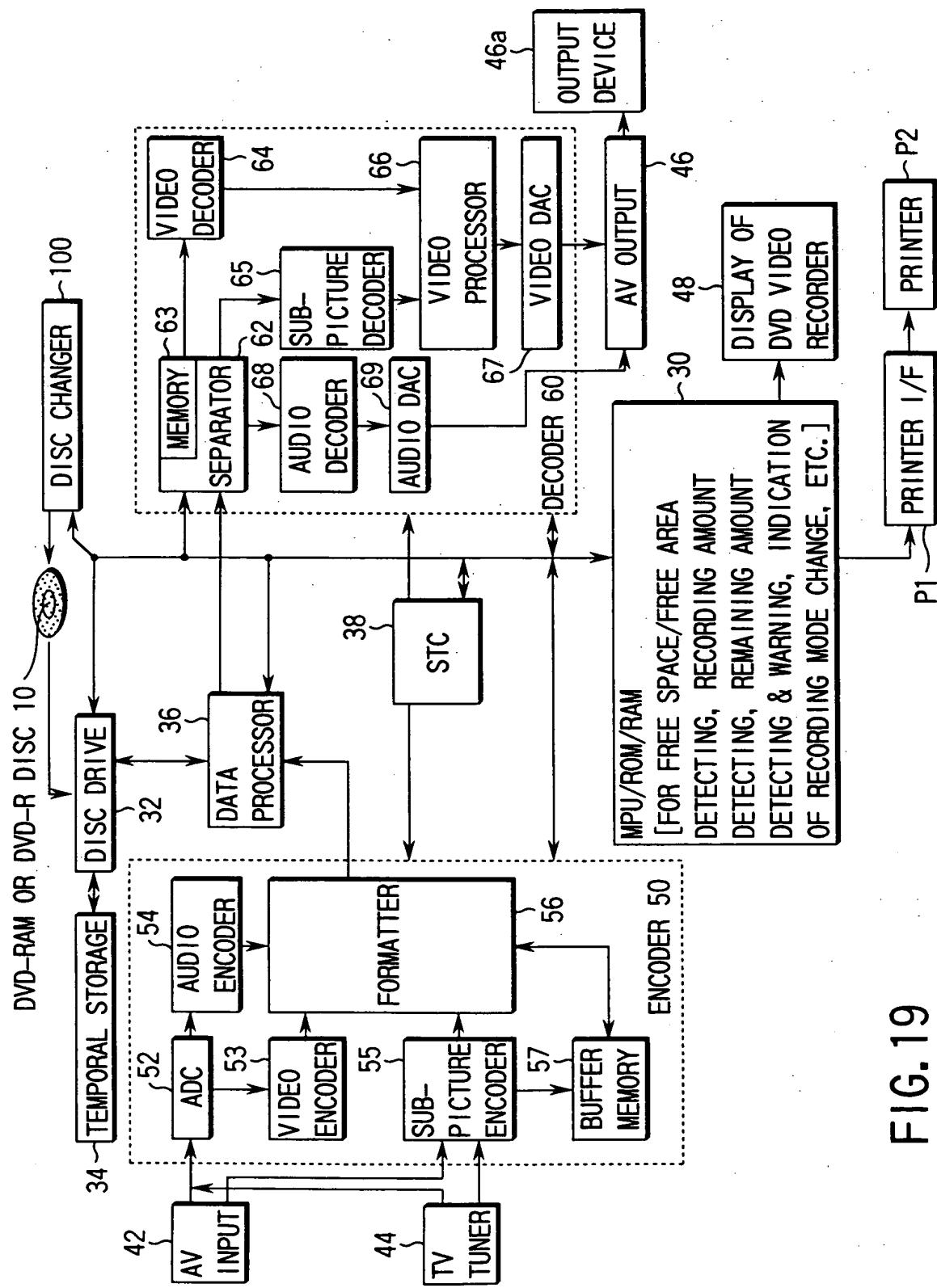


FIG. 19

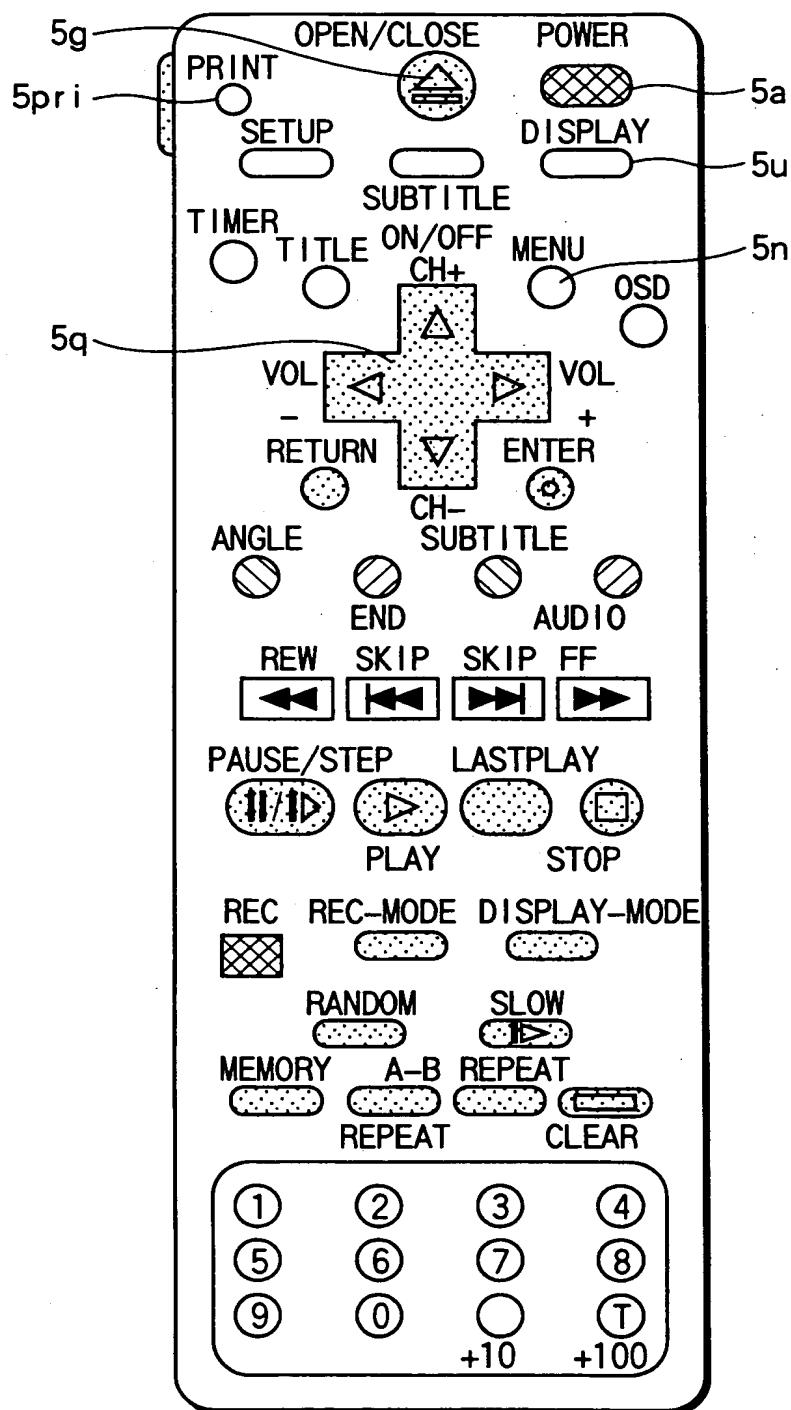


FIG. 20

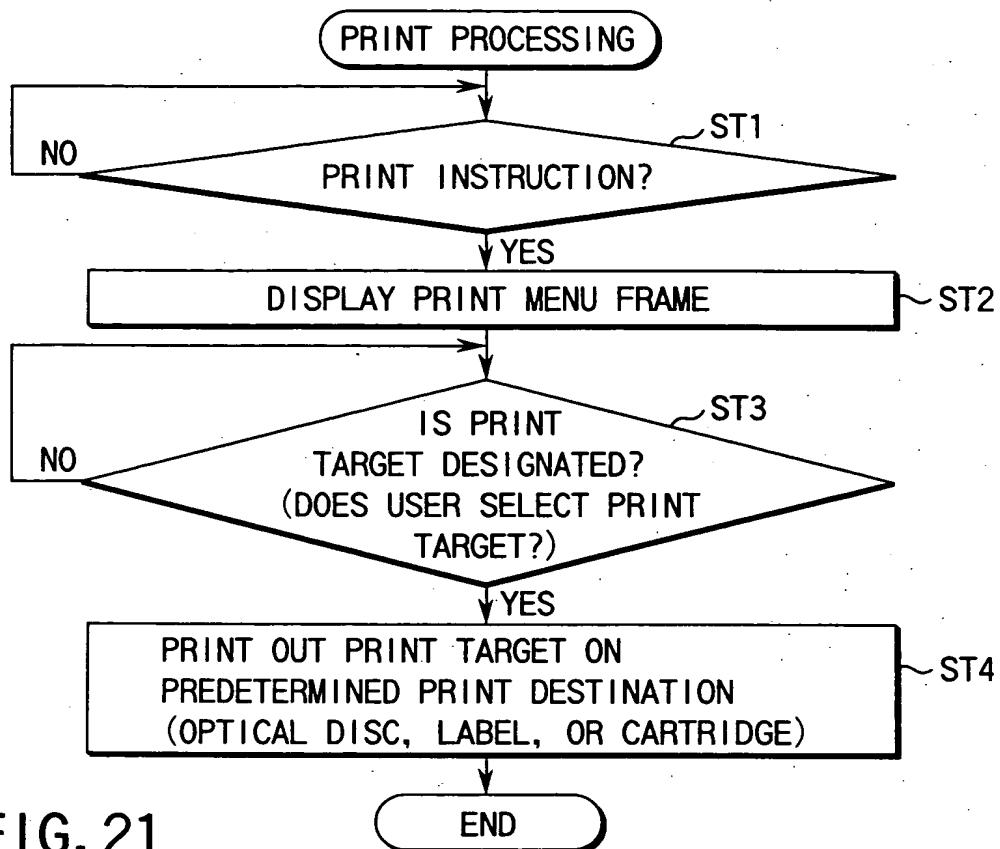


FIG. 21

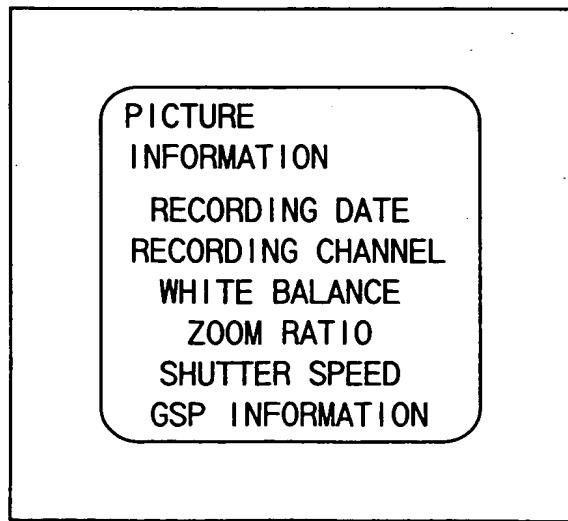


FIG. 22

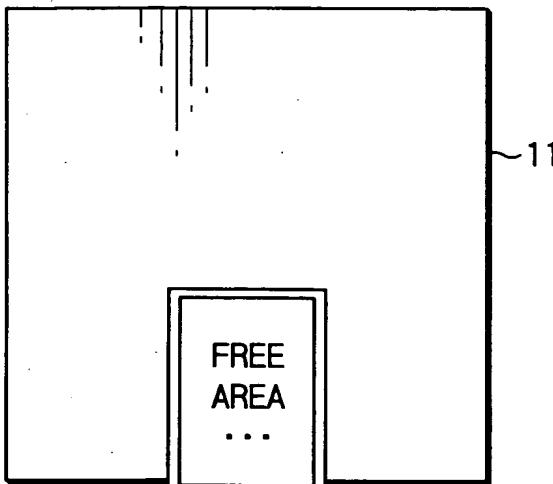


FIG. 23A

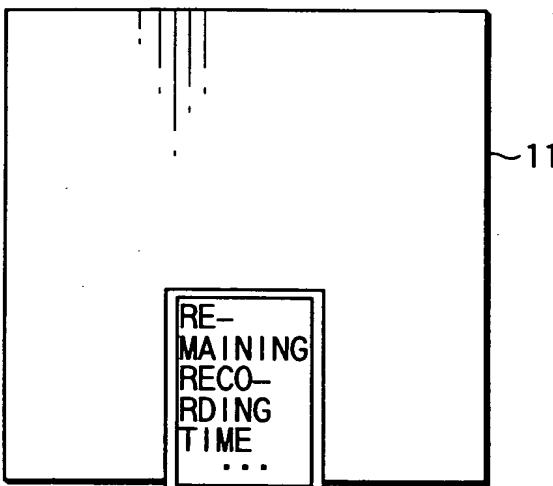


FIG. 23B

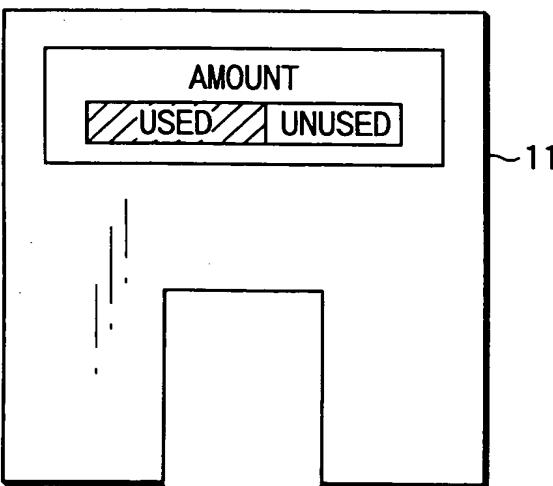


FIG. 23C

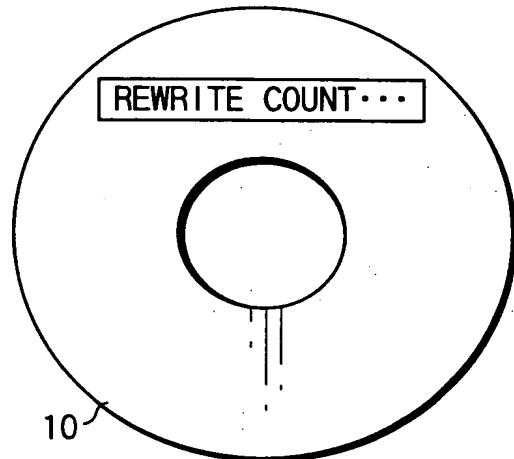


FIG. 24A

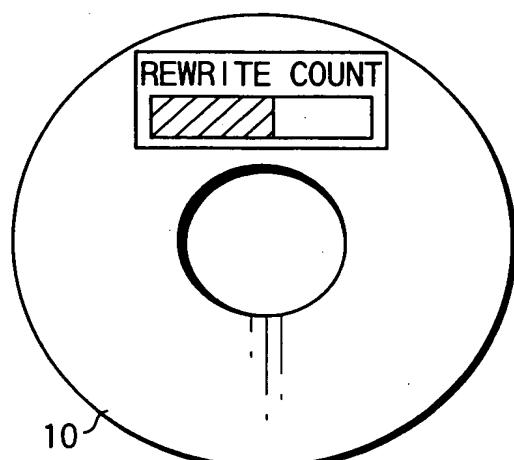


FIG. 24B

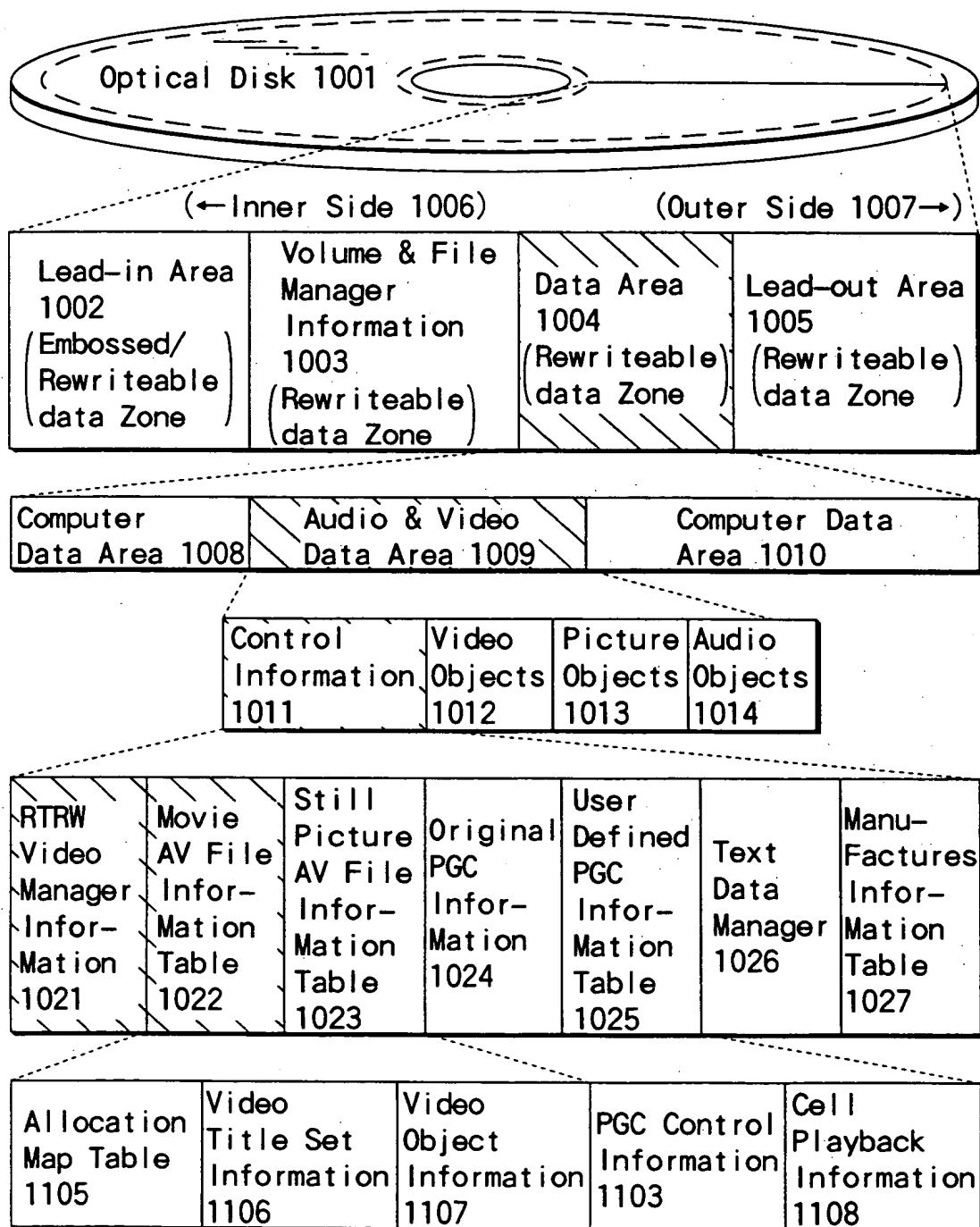


FIG. 25

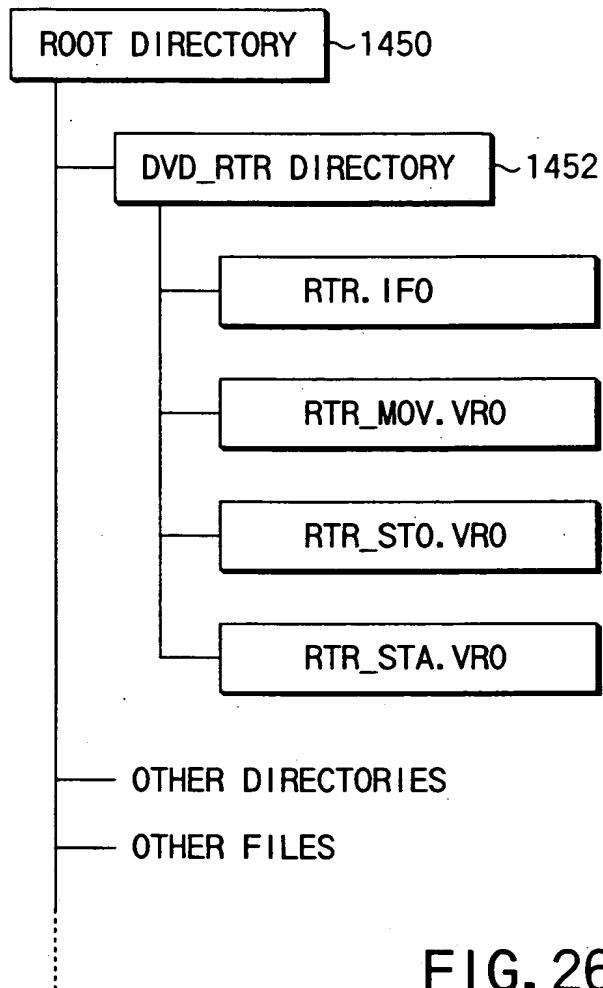


FIG. 26

AV FILE 1401																		
VOB #3 1463			VOB #1 1461			VOB #3 1464			VOB #2 1462			UN-RECORDED AREA 1460	VOB #3 1465					
EXTENT # $\gamma$ 1473			EXTENT # $\alpha$ 1471			EXTENT # $\delta$ 1474			EXTENT # $\beta$ 1472			EXTENT # $\zeta$ 1470	EXTENT # $\epsilon$ 1475					
a+1	a+2	...	b	b+1	b+2	c	c+1	...	d	d+1	...	e	e+1	...	f	f+1	...	g
← LSN (LOGICAL SECTOR NUMBER) SMALL (TOWARD INNER SIDE ON OPTICAL DISK 1001)											LSN LARGE → (TOWARD OUTER SIDE ON OPTICAL DISK 1001)							

FIG. 28

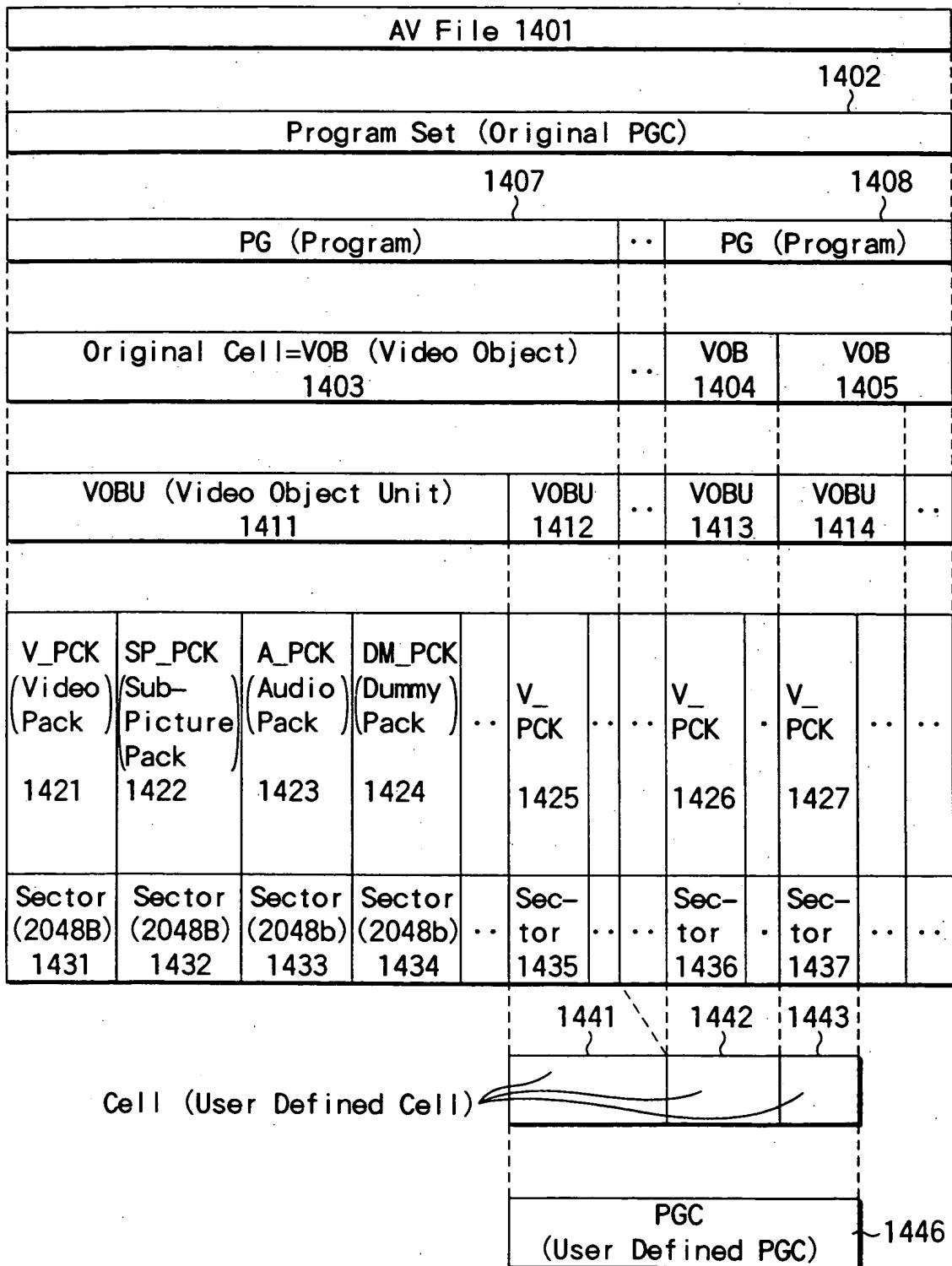


FIG. 27

UNRECORDED AREA POSITION DISTRIBUTION INFORMATION 1621	NUMBER OF EXTENTS IN UNRECORDED AREA	1601	1
	START ADDRESS OF FIRST EXTENT IN UNRECORDED AREA (LOGICAL SECTOR NUMBER)	1606	e-a
	SIZE OF FIRST EXTENT IN UNRECORDED AREA (SECTOR NUMBER)	1614	f-e
DATA RECORDING POSITION DISTRIBUTION INFORMATION ABOUT VOB#1 1622	NUMBER OF EXTENTS INCLUDED IN VOB#1	1602	1
	START ADDRESS OF FIRST EXTENT IN VOB#1 (LOGICAL SECTOR NUMBER)	1607	b-a
	SIZE OF FIRST EXTENT IN VOB#1	1615	c-b
DATA RECORDING POSITION DISTRIBUTION INFORMATION ABOUT VOB#2 1623	NUMBER OF EXTENTS INCLUDED IN VOB#2	1603	1
	START ADDRESS OF FIRST EXTENT IN VOB#2 (LOGICAL SECTOR NUMBER)	1608	d-a
	SIZE OF FIRST EXTENT IN VOB#2	1616	e-d
DATA RECORDING POSITION DISTRIBUTION INFORMATION ABOUT VOB#3 1624	NUMBER OF EXTENTS INCLUDED IN VOB#3	1604	3
	START ADDRESS OF FIRST EXTENT IN VOB#3 (LOGICAL SECTOR NUMBER)	1609	1
	SIZE OF FIRST EXTENT IN VOB#3	1617	b-a
	START ADDRESS OF SECOND EXTENT IN VOB#3 (LOGICAL SECTOR NUMBER)	1610	c-a
	SIZE OF SECOND EXTENT IN VOB#3	1618	d-c
	START ADDRESS OF THLRD EXTENT IN VOB#3 (LOGICAL SECTOR NUMBER)	1611	f-a
	SIZE OF THIRD EXTENT IN VOB#3	1619	g-f

FIG. 29

RTRW Video Manager Information  
(RTRW\_VMG1)

Video Manager Information  
Management Table (VMGI\_MAT)

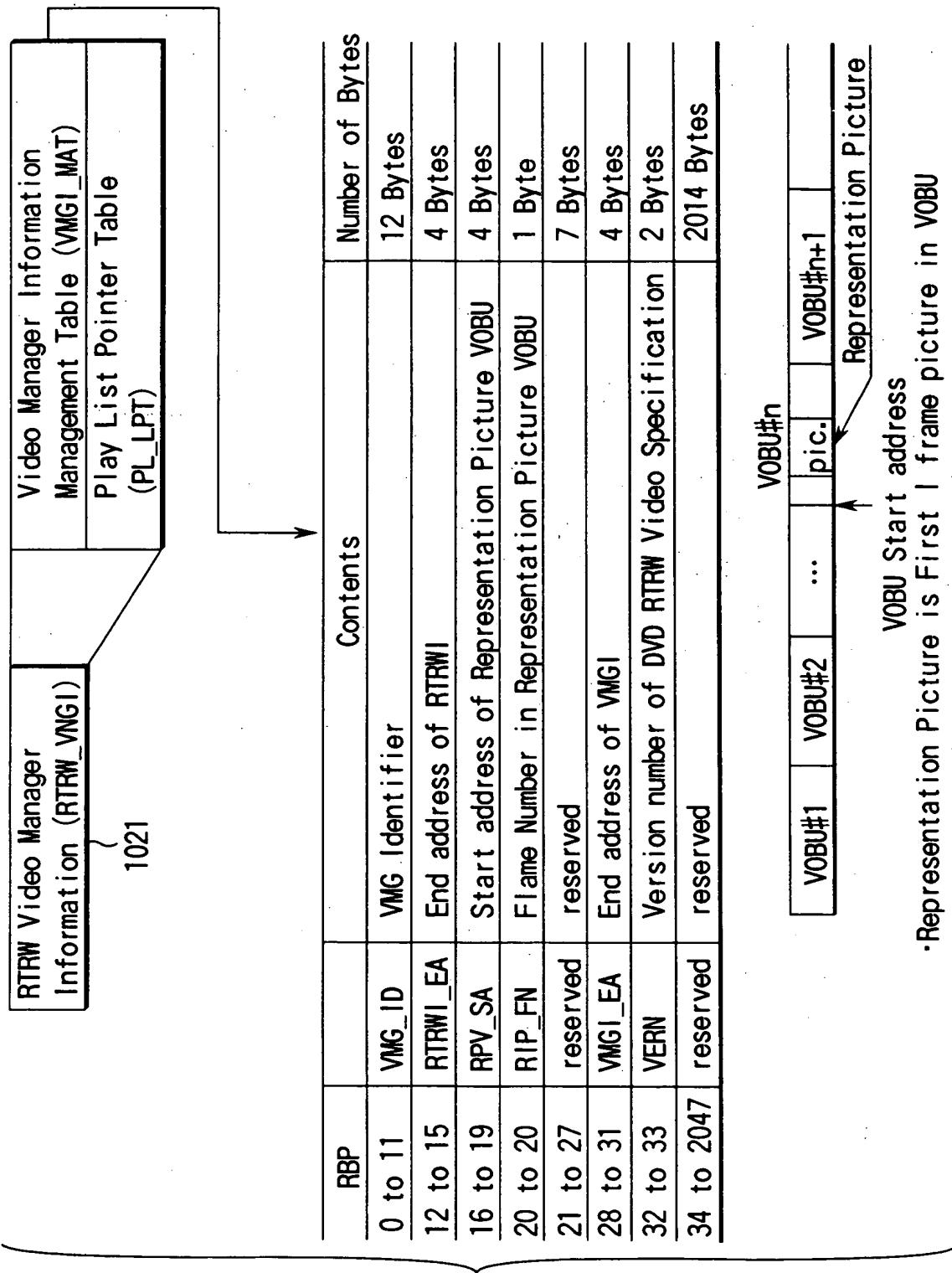
Play List Pointer Table  
(PL\_LPT)

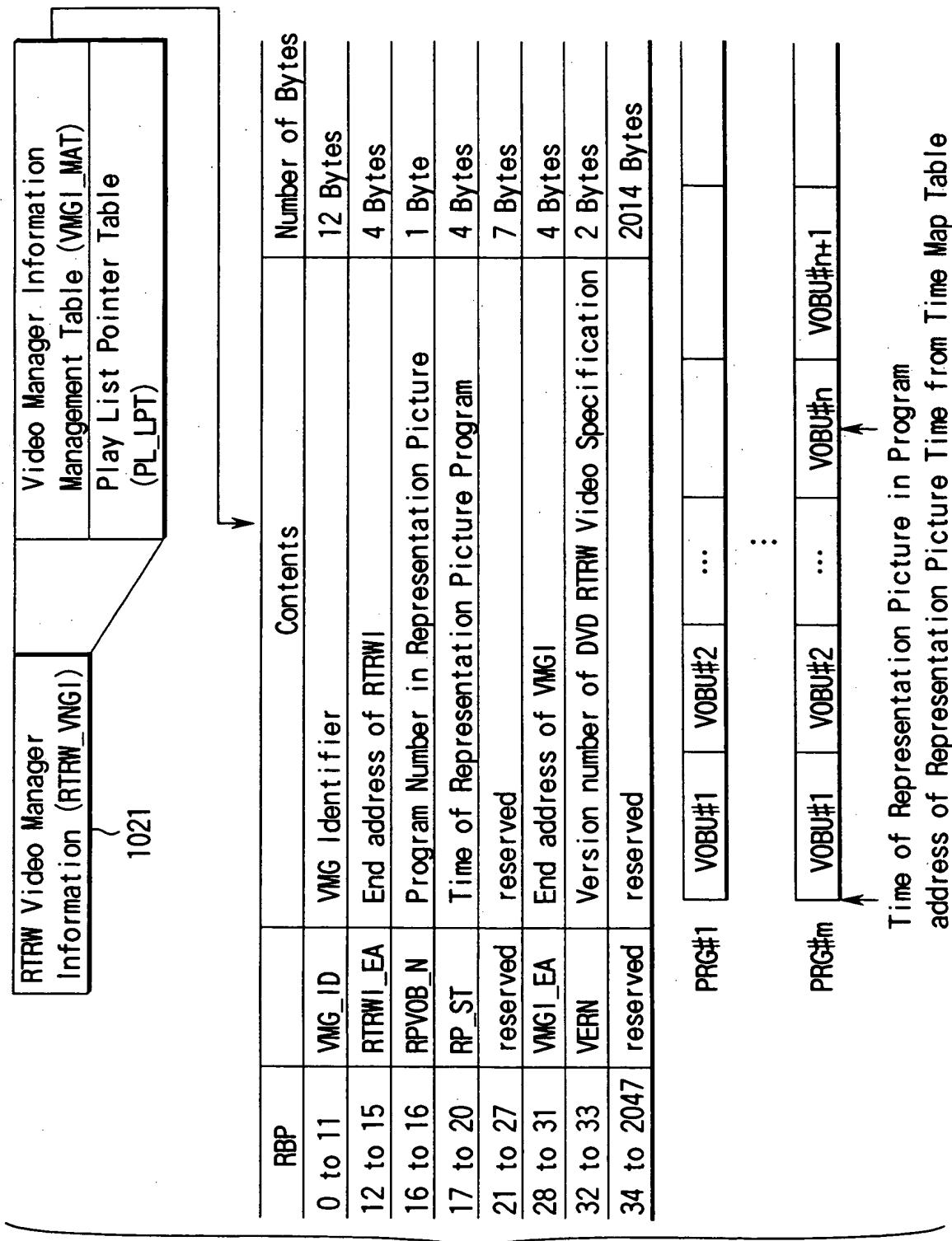
1021

RB#	Field Name	Contents	Number of bytes
0 to 11	VMG_ID	VMG Identifier	12 bytes
12 to 15	RTR VMG EA	End address of RTR_VMG	4 bytes
16 to 27	reserved	reserved	12 bytes
28 to 31	VMGI_EA	End address of VMGI	4 bytes
32 to 33	VERN	Version number of DVD Specifications for Video Recording	2 bytes
34 to 127	reserved	reserved	94bytes
128 to 129	TM_ZONE	Time Zone	2 bytes
130 to 131	STILL_TM	Still Time for Still Pictures	2 bytes
132 to 133	CHRS	Character Set Code for Primary Text	2 bytes
134 to 148	RSM_MRKI	Resume Marker Information	15 bytes
149 to 163	REP_PICTI	Disc Representative Picture Information	15 bytes
164 to 191	reserved	reserved	28 bytes
192 to 195	M_AVFIT_SA	Start Address of M_AVFIT	4 bytes
196 to 199	S_AVFIT_SA	Start Address of S_AVFIT	4 bytes
200 to 207	reserved	reserved	8 bytes
208 to 211	ORG_PGC1_SA	Start Address of ORG_PGC1	4 bytes
212 to 215	UD_PGC1T_SA	Start Address of UD_PGC1	4 bytes
216 to 219	TXTDT_MG_SA	Start Address of TXTDT_MG	4 bytes
220 to 223	MNFIT_SA	Start Address of MNFIT	4 bytes
224 to 511	reserved	reserved	288 bytes
Total			512 bytes

RB#	Field Name	Contents	Number of bytes
149	PGCN	PGC number	1 byte
150	PGN	PG number	1 byte
151 to 152	CN	Cell number	2 bytes
153 to 158	PICT_PT	Picture Point	6 bytes
159 to 163	CREAT_TM	Time when this Disc Representative Picture was made	5 bytes
Total			15 bytes

FIG. 30





PGC (PROGRAM CHAIN) CONTROL INFORMATION 1103

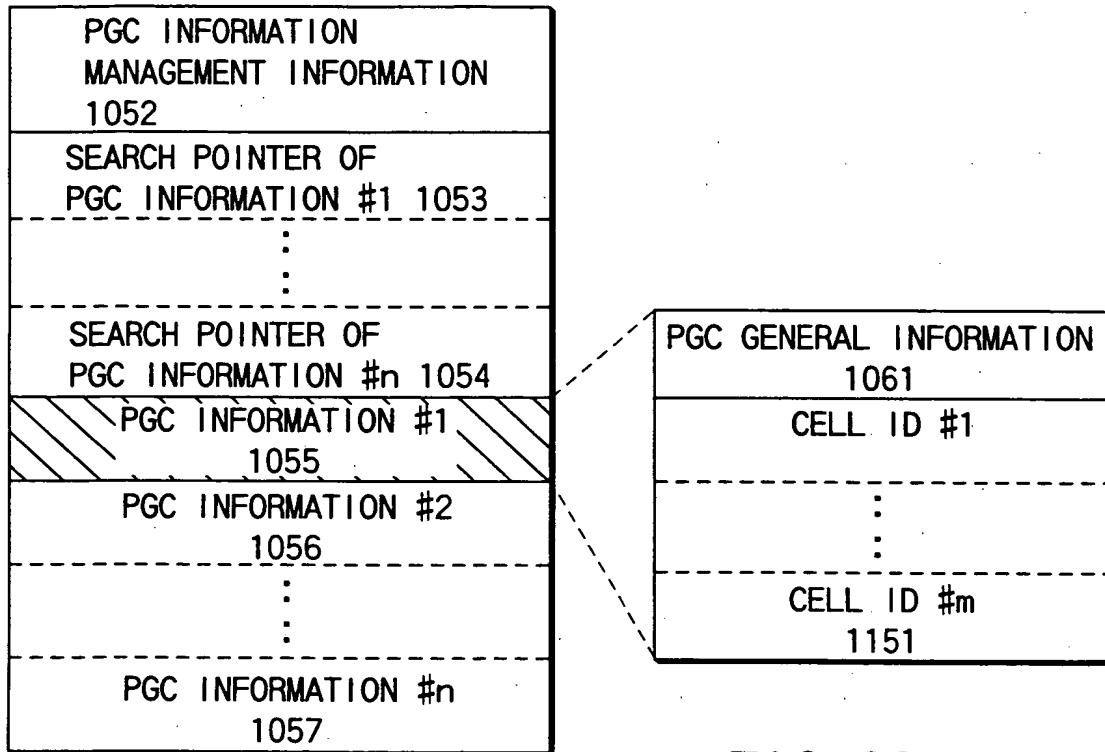


FIG. 33

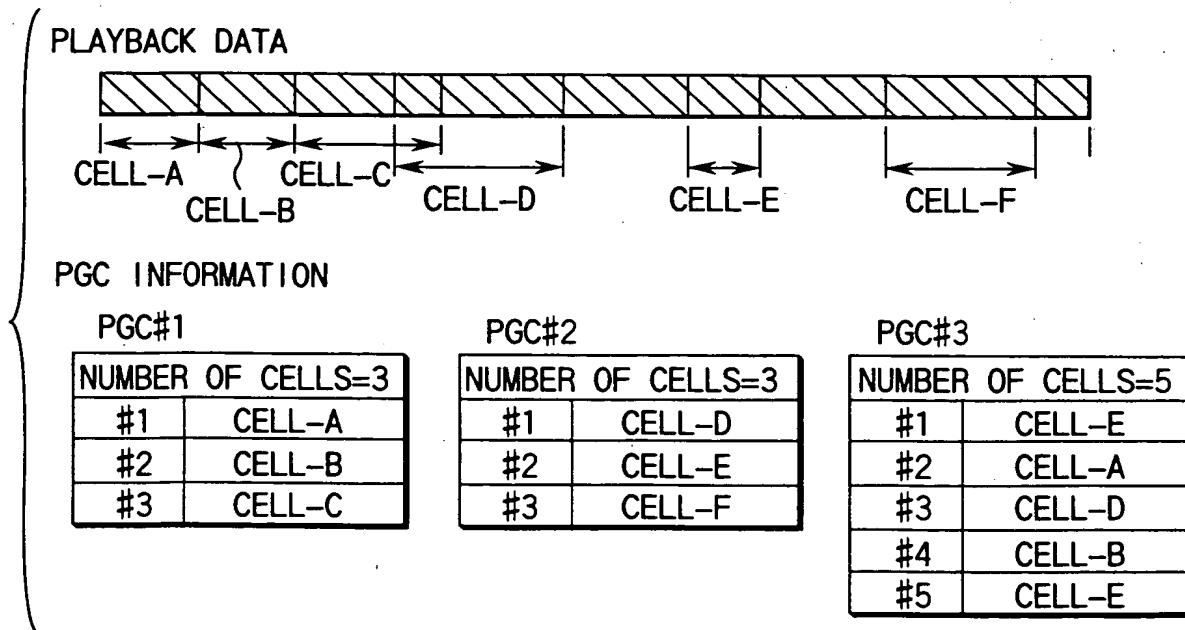


FIG. 34